

Patent Claims

5 1. Method for data output/file output in communication networks,

thereby characterized that

an end device transmits to a data processing unit at least the information necessary for accessing the data/files intended for output; the data processing unit, controlled by a computer program, opens the data/files
10 intended for output at their respective storage location, starts a print job for issuing the data/files, and embeds the print file resulting from the print job in a hypertext page, particularly a HTML or WML site, and/or converts the data/files intended for output into a pre-specifiable format, and

15 - transmits the hypertext page containing the print file and/or the print file resulting from the print job and/or the, converted where necessary, data/files to the end device and the end device issues the transmitted data/files, or

20 - provides the hypertext page containing the print file and/or the print file resulting from the print job and/or the, converted where necessary, data/files for recall in the communication network and transmits to the end device the information necessary for accessing the provided information and the end device, after transmission of the information necessary for access, automatically recalls and issues the data/files from the communication network or the
25 data/files intended for output are requested by manual recall and issued.

2. Method according to Claim 1,

thereby characterized that

the end device is a mobile end device.

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3. Method according to Claim 2,

thereby characterized that

the mobile end device is a mobile telephone, handheld computer, laptop or pocket PC.

4. Method according to Claim 1,
5 **thereby characterized that**
the end device is a stationary end device.
5. Method according to one of the claims 1 to 4,
 thereby characterized that
10 the data processing unit is a mobile end device.
6. Method according to Claim 5,
 thereby characterized that
the mobile end device is a mobile telephone, handheld computer, laptop or
15 pocket PC.
7. Method according to one of the claims 1 to 6,
 thereby characterized that
the information necessary for accessing data/files intended for output is
20 transmitted from the end device to the data processing unit via a dialup
connection or the internet.
8. Method according to one of the claims 1 to 7,
 thereby characterized that
25 the information necessary for accessing data/files intended for output is
transmitted from the end device to the data processing unit via SMS.
9. Method according to one of the claims 1 to 8,
 thereby characterized that
30 besides the information necessary for accessing data/files intended for
output, the end device additionally transmits display information and/or

information about the pre-specifiable output format of the data/files to the data processing unit and the data processing unit creates from the data/files intended for output a bitmap file that suffices for the specific requirements of the end device's display.

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10. Method according to Claim 9,

thereby characterized that

the display information includes the size of the display, the necessary scaling, and/or input for either color or black-and-white display.

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11. Method according to one of the claims 1 to 10,

thereby characterized that

the pre-specifiable format and/or the display information is stored according to user on the data processing unit.

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12. Method according to one of the claims 1 to 11,

thereby characterized that

the data processing unit creates a pure text file from the data/files intended for output.

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13. Method according to one of the claims 1 to 12,

thereby characterized that

the descriptions necessary for accessing the data/files provided for recall in the communication network are transmitted from the data processing unit to the end device by email or SMS.

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14. Design with at least one processor and/or chip that is (are) so constructed that a method for data output/file output in communication networks is executable, that an end device transmits to the data processing unit at least the information necessary for accessing data/files intended for output, that the data processing unit, controlled by a computer program, opens the data/files intended for output at their respective storage

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location, starts a print job for issuing the data/files, and embeds the print file resulting from the print job in a hypertext page, particularly a HTML or WML site, and/or converts the data/files intended for output into a pre-specifiable format, and

- 5 - transmits the hypertext page containing the print file and/or the print file resulting from the print job and/or the, converted where necessary, data/files to the end device and the end device issues the transmitted data/files; or
 - 10 - provides the hypertext page containing the print file and/or the print file resulting from the print job and/or the, converted where necessary, data/files for recall in the communication network and transmits to the end device the information necessary for accessing the provided information and the end device, after transmission of the information necessary for access, automatically recalls and issues the data/files
 - 15 from the communication network or the data/files intended for output are requested by manual recall and issued.
15. Computer program product that comprises a computer readable storage medium on which a program is stored that, once it has been loaded onto a
- 20 computer's memory, enables the computer to perform a method for data output/file output in communication networks, by which an end device transmits to a data processing unit at least the information necessary for accessing the data/files intended for output, that the data processing unit, controlled by a computer program, opens the data/files intended for output
 - 25 at their respective storage location, starts a print job for issuing the data/files, and embeds the print file resulting from the print job in a hypertext page, particularly a HTML or WML site, and/or converts the data/files intended for output into a pre-specifiable format, and
 - 30 - transmits the hypertext page containing the print file and/or the print file resulting from the print job and/or the, converted where necessary, data/files to the end device and the end device issues the transmitted data/files; or
 - provides the hypertext page containing the print file and/or the print file resulting from the print job and/or the, converted where necessary,

5 data/files for recall in the communication network and transmits to the end device the information necessary for accessing the provided information and the end device, after transmission of the information necessary for access, automatically recalls and issues the data/files from the communication network or the data/files intended for output are requested by manual recall and issued.

- 10 16. Computer readable storage medium on which a program is stored once it has been loaded onto a computer's memory, enables the computer to perform a method for data output/file output in communication networks, by which an end device transmits to a data processing unit at least the information necessary for accessing the data/files intended for output, that the data processing unit, controlled by a computer program, opens the data/files intended for output at their respective storage location, starts a
- 15 print job for issuing the data/files, and embeds the print file resulting from the print job in a hypertext page, particularly a HTML or WML site, and/or converts the data/files intended for output into a pre-specifiable format, and
- 20 - transmits the hypertext page containing the print file and/or the print file resulting from the print job and/or the, converted where necessary, data/files to the end device and the end device issues the transmitted data/files; or
 - 25 - provides the hypertext page containing the print file and/or the print file resulting from the print job and/or the, converted where necessary, data/files for recall in the communication network and transmits to the end device the information necessary for accessing the provided information and the end device, after transmission of the information necessary for access, automatically recalls and issues the data/files from the communication network or the data/files intended for output
 - 30 are requested by manual recall and issued.